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UNITED STATES DEPARTMENT OF AGRICULTURE

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December, 1920

## STORED PRODUCT INSECT INVESTIGATIONS

E. A. Back, Entomologist in Charge

Perez Simmons has been transferred from Alhambra, Calif., where he has been assisting A. O. Larson in bean weevil investigations, to Washington, D. C., for a general assignment.

A. O. Larson and Perez Simmons have submitted for publication a technical paper dealing with the biology of the four-spotted bean weevil, *Bruchus quadrimaculatus*.

S. E. McClendon, of Thomasville, Ga., has recently been on leave in Louisiana,

J. C. Bridwell left Washington, December 2, for the Southwest, where he will investigate the possibility of introducing into Hawaii certain predacious and parasitic enemies of Bruchidae.

D. B. Mackie, chief quarantine officer of the California Department of Agriculture, has recently been appointed collaborator with this Bureau. Mr. Mackie's efforts along the line of vacuum fumigation with carbon disulphid for the treatment of insects attacking dried fruits and vegetables have had most practical results. He has been instrumental in installing fumigators with the Peach and Fig Growers' Association and is now negotiating with the Associated Raisin Growers to treat all their products, which this year amount to sixty million dollars worth of stock. Outfits installed in Oregon are operating most satisfactorily, according to Mr. Mackie. He is also at work upon plans for fumigators for the Canadian Government, Hawaiian Board of Agriculture and Forestry, and for the Entomological Department of the Union of South Africa.

This branch has now moved from its old quarters in the Council of National Defense Building, 18th and D Sts., N. W., to the old Army Medical Building known now as "Building F", 7th and B Sts., N. W.

## SOUTHERN FIELD CROP INSECT INVESTIGATIONS

J. L. Webb, Entomologist Acting in Charge

B. R. Coad was in Washington at the close of November and beginning of December. In company with Dr. Howard he made a trip to New York to attend a meeting of manufacturers of insecticide and insecticide machinery for the purpose of discussing problems concerning the manufacture, distribution, and use of calcium arsenate in the control of the boll weevil. The motion picture illustrating the methods advocated by the bureau for the control of the weevil was shown.



Elmer Johnson, who has been temporarily transferred to the Bureau of Entomology from the Bureau of Public Roads, also attended the New York meeting. Mr. Johnson has gone to Tallulah, La., to supervise the development of cotton-dusting machinery at the laboratory and machine shop at that place.

George H. Bradley of the Mound, La., laboratory has been temporarily transferred to the Federal Horticultural Board, effective January 5.

A letter has been received from Mr. Christian Arghiridis of the Alexandria Water Co., Ltd., of Alexandria, Egypt, asking for information concerning calcium arsenate and dusting machinery of American manufacture, with a view to their use in controlling Egyptian cotton insects.

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LIBRARY

Mabel Colecord, Librarian

New Books

Alcock, A. W. Entomology for medical officers. 380 p., illus., port. Ed. 2 rev. London, Gurney & Jackson, 1920.  
Bibliography, p. 365-367.

Altson, A. M. The life-history and habits of two parasites of blow-flies... with an introduction by H. Maxwell Lefroy. (*Alysia rauducator* Panz. and *Nasonia brevicornis* Asm.) Proc. Zool. Soc. London, 1920, p. 195-243, illus. Literature, p. 243.

Bailey, I. W. Some relations between ants and fungi. Ecology v. 1, no. 3, p. 174-189, pl. v-vii, July 1920. Literature cited, p. 186-188.

Balfour, Andrew. War against tropical diseases.... 219 p. illus. London, Published for the Wellcome Bureau of Scientific Research, Balliere, Tindall & Cox, 1920.  
The medical entomology of Salonica, p. 81-98.

Blackman, M. W. Report on the white pine weevil. 12 p. (Investigations carried on and report published by the Maine Forestry Department, in cooperation with the Forestry Department, University of Maine, and the Maine Agricultural Experiment Station 1919.)

Carter, E. F. Observations on the ceratopogonine midges of the Gold Coast with descriptions of new species. Annals of tropical medicine and parasitology, v. 14, no. 2, p. 211-274, pl. vi-viii Nov. 27, 1920.



- Chopard, L. Influence de la lumiere sur la ponte de *Mantis religiosa* L. (Orth. Mantidae) Bul. Soc. Zool. France, v. 45, no. 1-2, p. 100-101. May 26, 1920.
- Dunn, L. H. Studies on the screw-worm fly "*Chrysomya macellaria*" in Panama. Proc. Med. Assoc. Isthmian Canal Zone, v. 10, pt. 2, p. 33-66, 1919.
- Fullaway, D. T. New species of *Sierola* with explanatory notes. Occasional papers of the Bernice Pauahi Bishop Museum of Polynesian ethnology and natural history, v. 7, p. 57-159, pl. xvi. Honolulu, Bishop Museum Press, 1920
- Holland, W. J. Lepidoptera of the Congo... Bul. Amer. Mus. Nat. Hist., v. 43, p. 109-369, col. pl. 6-14, New York, December 4, 1920.
- Hiss, A. E. and Ebert, A. E. The new standard formulary... 1256 pp. 5th. rev. ed. by E. D. Irvine. Chicago, G. P. Engelhard & Co. 1920.
- Illinois Dept. of registration and education. Division of the State natural history survey. Entomology series Circulars, 3-4-5. Urbana, 1919. By W. P. Flint.  
3. Methods of destroying grasshoppers. 11 p.  
4. The corn root-aphis. 7 p.  
5. Chinch-bug barriers. 9 p.
- Dudley, F. H. Dusting the orchard. Maine Dept. Agr. Bul. v. 19, no. 3, 31 p. illus. September 1920.
- James, S. P. Malaria at home and abroad. 234 p., front., illus. maps. (Bale's medical books and journals.) London, 1920.
- Lang, W. D. A handbook of British mosquitoes. 125 p. illus., 5 col. pl. London, British Museum, 1920.
- Leeftmans, S. De klappertor (*Oryctes rhinoceros* L.) 156 p. 19 pl. Batavia, 1920. (Mededeelingen van het Instituut voor plantenziekten, Batavia, no. 41.)
- Marchal, Paul. Les traitements arsenicaux et les traitements mixtes des arbres fruitiers. Annales du Service des epiphyties, v. 6, p. 242-280, 1919. Bibliographie, p. 276-280.
- Melzer, Julius. Os longicorneos brasileiros da sub-familia "Prioninae." Revista do Museo Paulista, Sao Paulo, v. 11, p. 1-207, 10 pl. 1919.
- Misra, C. S. The rice leaf-hoppers (*Nephotettix bipunctatus* Fabr., and *Nephotettix apicalis* Motsch.) 207-239 p. illus., p. xx-xxiii Calcutta, Thacker, Spink, & Co., May, 1920. Memoirs of the Dept. of Agr. India. Ent. Ser. v. 5, no. 5.)
- Picard, F. Contribution a l'etude du peuplement d'un vegetal. La faune entomologique du figuier. Annales du Service des epiphyties, v. 6, p. 34-174, 1919.

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- Richmond, Avery. Studies on the biology of the aquatic Hydrophilidae. Bul. Amer. Mus. Nat. Hist., vol. 42, p. 1-94, 16 pl. New York, September, 27, 1920. Literature, p. 88-93.
- Royal Society of London. Grain pests (War) committee. Report 2. Bionomic, morphological and economic report on the acarids of stored grain and flour, Part II, by R. Newstead. 28 p., 11 pl. London, 1920.
- Scholl, E. E. Report on the pink bollworm of cotton (*Pectinophora gossypiella*, S.) 459 p., illus., maps, Austin (1920). (Texas Dept. of Agr. Bul. 65, March, April. 1929.)
- Smith, E. F. An introduction to bacterial diseases of plants. 688 p., port., illus. Philadelphia and London, W. B. Sanders Co. 1920.
- Southwell, T. Fish and mosquito larvae in Bengal, Bihar and Orissa, India. Annals of tropical medicine and parasitology, v. 14, no. 2, p. 181-205, pl. iv-vi, November 27, 1920.
- Story, Colin. The spinose ear-tick. Practical suggestions for suppression. Jour. Dept. Agr. Union of South Africa, vol. 7, p. 647-654, illus. October 1920.
- Tavares, J. da Silva. Synergismus ou les cynipides commensaux d'autres cynipides dans la Peninsule Iberique. 75 p. 2 pl. Lisbonne, Imprimerie de la librairie Ferin, 1920.
- U. S. Surgeon General's Office. Laboratory methods of the U.S. Army. Compiled by the Division of infectious diseases and Laboratories. Ed. 2 rev. 354 p. Philadelphia & N. Y., Lea & Febiger, 1919.
- Wilson, C. B. Dragonflies and damselflies in relation to pond fish culture, with a list of those found near Fairport, Iowa. U. S. Bureau of Fisheries, Bul. v. 36, 1917-18, p. 181-264, illus. Doc. 882. Issued August 4, 1920. Bibliography, p. 260-264.

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#### DECIDUOUS FRUIT INSECT INVESTIGATIONS

A. L. Guaintance, Entomologist in Charge

A. J. Ackerman, who has been in charge of orchard insect control operations at the Bentonville, Ark., laboratory has been detailed to investigate, in cooperation with the California State Department of Agriculture, the control of the codling moth on pears with especial reference to spray residue on harvested fruit.

B. A. Porter, in charge of the Bureau's laboratory at Wallingford, Conn., will spend several weeks in Washington preparing manuscripts and reports on the results of his field investigations.



Dr. A. L. Quaintance, Dr. N. E. McIndoo and C. H. Hadley attended the meetings of the American Association for the Advancement of Science at Chicago.

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